Belinea

USER MANUAL
LCD-Monitor
Belinea 10 19 30

BELINEA PREMIUM SERVICE

English

The three-year return to base warranty for your Belinea monitor includes all parts and labour. In addition many countries offer a free of charge swap out warranty programme. This does not affect your Statutory Rights. Please visit http://www.belinea.com or call the numbers below for further warranty or service information.

Please have the serial and model number ready when calling.

Deutsch

Die Garantie für Ihren Belinea-Monitor beträgt drei Jahre und umfasst alle Bauteile. Darüber hinaus bieten wir in vielen Ländern einen zusätzlichen, kostenlosen Austausch-Service an. Von dieser o. g. Garantie bleiben etwaige gesetzliche Gewährleistungsrechte unberührt. Nähere Informationen zu Garantie- und Servicefragen erhalten Sie im Internet unter http://www.belinea.com sowie unter den u. g. Rufnummern.

Bitte halten Sie für Ihren Anruf Serien- und Modellnummer bereit.

Français

La garantie internationale de trois ans sur les écrans Belinea s'entend pièces et main d'œuvre. Pour obtenir plus d'informations sur la garantie et le service après-vente contactez-nous sur Internet http://www.belinea.com ou aux numéros de téléphone ci-dessous. Vous pouvez obtenir également plus de détails sur les possibilités d'échange gratuit, service offert dans de nombreux pays.

Pour votre appel, tenez les numéros de série et d'article à portée de main.

Country **Land** **Pays**	**Phone number** **Telefonnummer** **Numéro de téléphone**	**Additional swap out service** **Zusätzlicher Austausch-Service** **Service supplémentaire d'échange sur site**
Belgie/Belgique	0900 10630 (0,45 €/min)	3 year on-site warranty (swap out)
Deutschland	02365 952 1010	3 Jahre Garantie-Austausch-Service
Česká republika	+420383369146	Záruka 3 roky
España	090 21 96 497	3 años de garantia con intercambio a domicilio
Ελλαδα	210 48 05 800	Εγγυηση 3 χρονια επιτοπου αντικατασταση
France	0820 091820	3 ans de garantie avec échange standard sur site
Hrvatska	+385 1 3654 960	3 godine jamstva
Italia	199 156 169	3 anni di Garanza di sostituzione a domicilio
Ireland	00 353 12861343	3 year on-site warranty (swap out)
Luxemburg/Luxembourg	0900 74235 (0,45 €/min)	3 year on-site warranty (swap out)
Magyarország	01 340 99 51/53	3 év helyi szerviz
Nederland	0900 BELINEA (02354632) (0,70 €/Gesprek)	3 year on-site warranty (swap out)
Österreich	01 277 89 88	3 Jahre Vor-Ort-Austausch-Garantie
Polska	071 337 19 55/022 863 27 77	3 lata gwarancji (door to door)
Portugal	090 21 96 497	3 Anos de Troca em Garantia On-Site
Россия	+49 (0) 180 5 62 94 68	Трехлетняя гарантия с заменой на рабочем месте
Schweiz	0900 575 111 (2,13 CHF/min)	3 Jahre Vor-Ort-Austausch-Service
Slovenija	+386 1 5837247	3 leta garancije
United Kingdom	01344 788920	3 year on-site swap out warrant (UK mainland only)
All other countries Alle anderen Länder Les autres pays	+49 (0) 180 5 62 94 68	

INTRODUCTION

This manual will familiarize you with the installation and use of your Belinea monitor. Please take the time to look through these instructions even if you are familiar with monitors.

We have taken all possible care to ensure that this manual contains correct, accurate information. However, the manufacturer cannot assume liability for any possible errors. In addition, the manufacturer cannot guarantee that the hardware will meet the purpose you require. We would appreciate reports of any errors, suggestions or criticism.

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All rights reserved. No part of this manual may be reproduced, processed or distributed in any form (print, photocopy, microfilm or any other process) or processed by an electronic system without prior written permission from the manufacturer.

We reserve the right to make changes according to technical progress. Belinea is an internationally registered trademark. Other brand names may be registered trademarks and must be treated as such.

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Important Safety Instructions

Some Belinea monitor models come with 2 power cords. Please ensure you use the UK plug (3 pin) in the UK and not the European plug (2 pin).

Do not place the monitor in very hot or cold, nor damp or dusty surroundings. Do not put vases etc. on the monitor, water may cause short circuits. Do not block or cover the ventilating openings. All products that produce magnetic fields, i.e. laser printers, loud-speakers etc., must not be placed close to the monitor. Do not install this monitor in areas where too much light or sunshine might directly hit the screen, otherwise the brightness of the picture will be poor due to reflections. Refer all servicing and maintenance to authorised service personnel only!

CAUTION
Do not remove the cover!
Serious electrical shock hazards exist inside this monitor.

NOTE
Removal of cover invalidates your warranty.

Guide to symbols

The symbols below are used in this manual to indicate where there is risk of injury or damaging devices or to indicate especially useful information:

DANGER! Indicates risk of injury. When not following instructions, severe injury or death may result.

ATTENTION! Indicates possible damage to devices. When not following instructions, devices may be heavily damaged.

IMPORTANT! Indicates hints on operation and other useful information.

100% Recyclable

We are all responsible for the environment: this manual was printed from front to back on paper that was produced without chlorine.

IMPORTANT INFORMATION

Note on monitor placement

- The setup location must not be extremely hot, cold, humid or dusty. Heat and cold can impair the functionality of the monitor. Humidity and dust can cause the monitor to fail.
- Don't place the monitor near heaters such as radiators or the like. Don't expose the monitor to mechanical vibrations or jarring.
- Position the monitor so that no direct light or sun strikes the screen, which could cause reflections that reduce the quality of the image.

Notes on power connection

Only use the power cord designated for use in your country.

The wall outlet should be within easy reach. Pulling the power plug is the only way to disconnect the monitor from the power source.

- This monitor is ENERGY STAR®-compatible. MAXDATA is an ENERGY STAR® partner and guarantees that this device complies with the ENERGY STAR® guidelines for optimizing power consumption.

Safety instructions for operation

The power cord must not be damaged. Do not place any objects on the power cord and make sure it does not have any knots. To unplug the cord, always pull on the plug and not on the cable itself.

- Avoid covering the ventilation slots. Air circulation is necessary to prevent the monitor from overheating. If the air circulation is restricted it could cause fire or damage the monitor.
- Do not use any solvents to clean the monitor, as the housing could be damaged. For more information about cleaning the monitor, please see "Caring for Your LCD Monitor".

Never open the monitor housing yourself. There is a danger of electric shock and other hazards. The monitor may only be opened and serviced by qualified professionals.

Note on resolution

All resolutions provided by the graphics card that deviate form the physical resolution of the panel are adjusted by interpolation. This can impair the image quality.

Notes on ergonomics

In order to relieve your eyes, neck and shoulder muscles when looking at the screen, we recommend that you maintain a distance of 50 to 75 cm between the monitor and your eyes. In addition, you can relax your eyes by regularly focusing on an object at a distance of about 6 m. To achieve an ergonomic sitting position, your elbows, pelvis, knees and ankles should form a right angle.

CARING FOR YOUR LCD MONITOR

- First, unplug the power cord from the wall socket.
- If the LCD screen is extremely dirty, clean it with a moist cloth. Use only warm water and then wipe the monitor dry. Solvents or harsh cleaners can damage the housing. Clean the display surface only with a soft cloth, otherwise you may damage the display's coating.
- If the monitor is only slightly dirty, clean it using a soft, dry and antistatic cloth.
- The LCD monitor's screen surface is very sensitive. Please avoid any contact with the surface (finger, pencil etc.) and be especially cautious during transportation since jolts and shocks can cause the screen to become scratched (always use the original packaging).

WALL MOUNTING

The Belinea monitor is shipped with the standard desktop configuration. However, you can optionally mount the device on a wall or on a monitor swivel arm (optional accessory). Please follow the corresponding instructions (4-hole assembly with a spacing of 4 × 4 inches (100 × 100 mm) according to the international VESA FDMI standard).

UNPACKING

Carefully lift the monitor out of the packaging and make sure that all components are included (see fig. 1).

Save the original box and packing material in case you have to ship or transport the monitor.

To set up the device, you must fit the monitor base together. You can adjust the height of the base. When the base of the monitor is extended, you can tilt the monitor 90° (Pivot function).

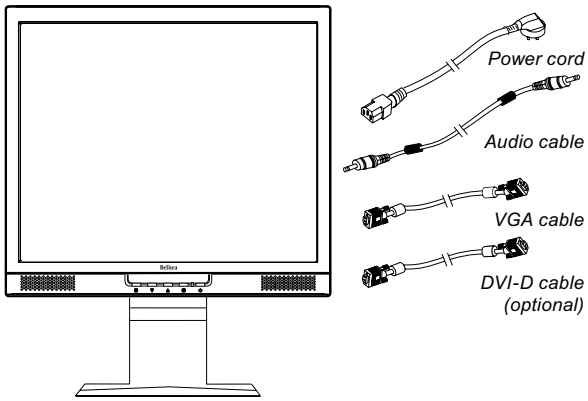


Figure 1. *Monitor with swivel base*

CONNECTING

◗ To connect the monitor to your PC .....

1. Make sure that the PC and monitor are unplugged.
2. Connect the 15-pin signal cable to the PC (see figure 2a).
3. If you have a graphic card with a digital DVI-D connector (24-pin socket), then connect one end of the DVI-D cable (optional) to the DVI-D connector of your monitor (see fig. 2b), the other end to the computer.

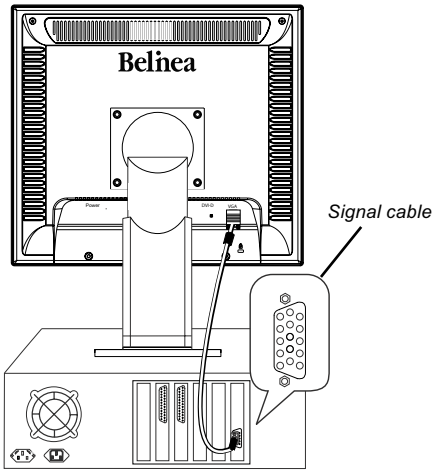


Figure 2a. *Connecting the monitor to the PC*

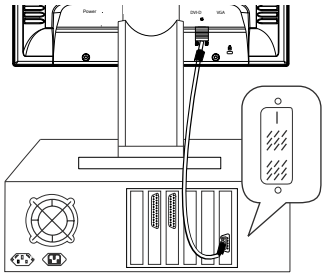


Figure 2b. *Connection via the DVI-D interface*

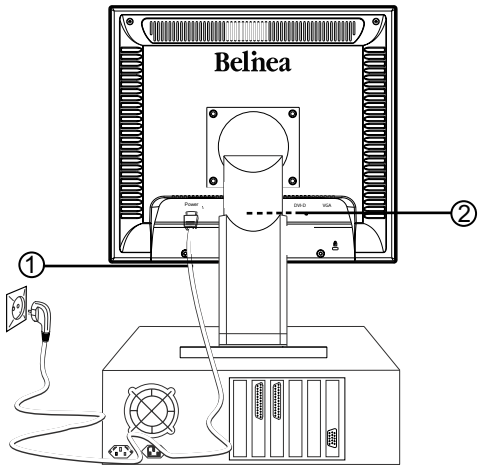


Figure 3. *Connecting the monitor to the power source*

◗ To connect the monitor to the power source.....

Connect the separate power cable (① in fig. 3) to the monitor and a grounded outlet.

◗ Connecting the audio cable .....

If your computer is equipped with an audio output port, then connect one end of the sound cable to the audio input connector of the monitor (② in fig. 3) and the other end to the Line-Out connector of the computer.

STARTUP

1. First start your PC and then turn on your Belinea monitor using the power switch (⑥ in fig. 4). The status indicator (⑤ in fig. 4) should light up green.
2. Adjust the image to meet your requirements (see the following sections “Basic Setup” and “Image settings using the OSD menu”).
3. If there is no image displayed on the monitor, consult the section “Troubleshooting”.

CONFIGURATION

◗ Monitor setup under Windows® 9x/ME/2000 and XP:

If using the monitor under Windows® 9x/ME/2000 or XP, we strongly recommend installing the Belinea configuration file. You can obtain this file from your Belinea dealer or download it from the MAXDATA FTP server at *ftp.maxdata.com.*
Here, click the "Belinea_Treiber_Driver" directory and download the *Belinea.inf* and *README_Belinea.TXT* files. Follow the installation instructions in the *README_ Belinea.TXT* file.

◗ Monitor setup under Windows® NT 4.0:

Under Windows® NT 4.0 no separate setup file is required. Select the vertical frequency and the number of colors directly from within the "Settings" → "Control Panel" → "Display" → "Settings" menu.

BASIC SETUP

◗ Automatic Image Adjustment .....

You can adjust the image settings (such as image position, phase, etc) manually or by using the LCD monitor's automatic image adjustment feature. This will adjust the image parameters to their optimal settings for the current graphics mode. Press 2 (④ in fig. 4) to launch the automatic adjustment. The process will take a short while until completed.

◗ Shortcut for adjusting contrast and brightness ..

You can adjust contrast and brightness directly by pressing the ▼ or ▲ buttons (② and ③ in fig. 4) while the OSD menu is not displayed. Press the ▲ button to increase the contrast/brightness or ▼ to decrease it.

◗ Locking and Unlocking the On/Off Button.....

Holding down the button combination 1 (① in fig. 4) and ▼ (② in fig. 4) for 10 seconds activates the "Lock and Unlock" option for the On/Off button.

◗ Locking and Unlocking the OSD.....

Holding down the button combination 1 (① in fig. 4) and ▲ (③ in fig. 4) for 10 seconds activates the "Lock and Unlock" option on the OSD menu.

◗ Disabling the sound (MUTE) .....

You can mute or activate sound playback by holding down the button combination ▲ (③ in fig. 4) and 2 (④ in figure 4) while the OSD menu is not displayed.

IMAGE SETTINGS USING THE OSD MENU

The OSD menu is a window on your screen that allows you to view and change display settings. To change an OSD setting:

1. Press the 1 button (① in fig. 4) to display the OSD menu on the screen.
2. There are a total of 8 OSD submenus divided by categories. Select the desired submenu by pressing the OSD button ▼ or ▲ (② and ③ in fig. 4; see section "OSD Menu Functions").

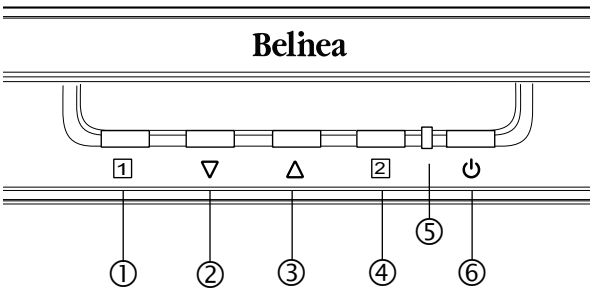
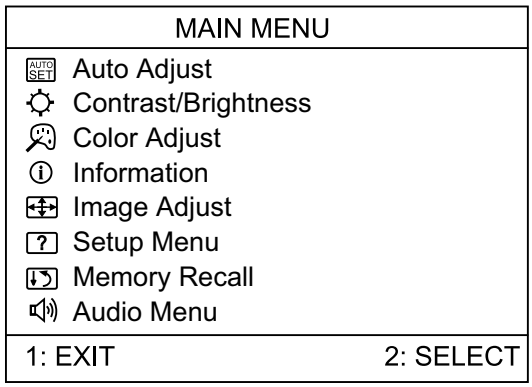


Figure 4. *Monitor features*

3. Press the 2 button (④ in fig. 4) to activate the selected function or associated submenu.
4. If you selected a submenu, now select the subfunction you want using the ▼ or ▲ (② and ③ in fig. 4; see section "OSD Menu Functions") OSD buttons.
5. Set the desired value using the OSD button ▼ or ▲ (② and ③ in fig. 4; see section "OSD Menu Functions").
6. Press the 2 button (④ in fig. 4) to save the setting. Repeat steps 2–5 to make further adjustments as needed.
7. The OSD menu automatically disappears if no changes are made for more than 15 seconds (default setting). The current settings will be saved. You can close it manually by pressing the 1 (① in fig. 4) button.

OSD MENU FUNCTIONS



Auto Adjust

Automatically selects the optimal settings for image parameters (image position, phase, etc).

Contrast/Brightness

Adjusts screen contrast and brightness. Use the 2 button (④ in fig. 4) to switch between the two functions.

Color Adjust

This menu lets you select a preset color temperature (9300 K, 6500 K or sRGB (D65)) by pressing the ▼ or ▲ OSD buttons. Changes to the color temperature take immediate effect on screen. If you wish to set individual color values, select the **User Color** option. Then press the 2 button (④ in fig. 4) to select the red, green and blue settings and set the desired value using the ▼ or ▲ OSD buttons. When you are happy with the color settings, press the 1 OSD button (① in fig. 4) twice to return to the OSD main menu.

Information

Displays the current screen resolution together with horizontal and vertical frequency (no settings possible) as well as the model and serial numbers.

Image Adjust

H./V. Position: Controls the horizontal and vertical position.

H. Size: Controls the horizontal image size.

Fine Tune: Controls image fine adjustment.

Sharpness: Controls image sharpness (only for resolutions less than 1280 × 1024 pixels).

Setup Menu

Language Select: OSD menu language selection: English, French, German, Italian, Spanish, Finnish, Dutch, Russian, Polish.

Resolution Notice: Activate/deactivate.

OSD Position: Adjusts the horizontal and vertical position of the OSD menu. Use the 2 button (④ in fig. 4) to switch between the two functions.

OSD Time Out: Determines how long (in seconds) the OSD menu waits before closing automatically after no action has been performed.

Memory Recall

Restores factory display settings.

Audio Menu

Opens the menuitems **Volume** and **Mute On/Off**. Use the ▼ or ▲ OSD buttons to switch between two functions.

Volume: Adjusts the monitor loudspeaker output volume.

Mute On/Off: You can mute sound output or switch the sound back on.

TROUBLESHOOTING

Blank Screen

Power indicator is off

- Make sure the power cable is connected properly (see section “Connecting”).
- Make sure that the monitor was turned on using the power switch (see section “Startup”).

Power indicator lights orange

- Perhaps a power saving mode is active? Press any key on your keyboard or move the mouse.

Power indicator lights green

- A screen saver may have activated automatically after a certain period of inactivity. Press any key on your keyboard or move the mouse.

“No Signal” message

- Is the signal cable connected to the monitor and the PC’s graphics port (see section “Connecting”)?
- Is the PC turned on (see your PC’s documentation)?

Display Problems

Image is displaced to the left/right or to the top/bottom

- If the image appears normal but off-center, you can adjust it using the OSD functions. For further information, see chapter “Basic Setup”, section “Automatic Image Adjustment” or chapter “OSD Menu Functions”, section “Image Adjust”.

Image flickers or is shaky

- Perhaps setup file chosen for the monitor is incorrect. For information on monitor setup under Windows® 95/98/ ME/2000/NT/XP consult the “Configuration” section.

Image is blurred

- Check brightness and contrast settings (see chapter “OSD Menu Functions”, section “Contrast/Brightness").
- Check the image noise and sharpness setting (see “Fine Tune” and “Sharpness” functions in the “OSD Menu Functions” section).

Color problems

- If the colors are off (e.g. white is not really displayed as white etc), you should adjust the color temperature (see “Color Adjust” function in section “OSD Menu Functions”).

TECHNICAL SPECIFICATIONS

LCD panel	19 inch diagonal size (48,3 cm visible), low radiation according to TCO '99, certified to ISO 13406-2, pixel fault class II, TN panel technology
Contrast ratio	600:1 (typical) / 700:1 (max.)
Viewing angle	(contrast ratio ≥ 10:1) horizontal 140°, vertical 130° (typical) (contrast ratio ≥ 5:1) horizontal 160°, vertical 150° (typical)
Response time	8 ms (typical)
Brightness	250 cd/m^2 (typical) / 270 cd/m^2 (max.)
Input signal	Video: analog (15-pin mini D-Sub) and digital (24-pin DVI-D)
Display colors	16.2 mill. colors
Synchronization	30–80 kHz horizontal, 50–75 Hz vertical
Video band width	135 MHz (pixel rate)
Ergonomic resolution	1280 × 1024 (60 Hz)
Audio	Amplifier: 1 W at 8 Ohms
	Loudspeaker: 1 W continuous load, 2 W peak power
Power connection	100–240 V AC, 50–60 Hz
Power consumption	ON status: max. 55 W with Audio; color of the status LED: green
	SLEEP status: max. 2 W; color of the status LED: orange
	Power saving functions EPA certified
Dimensions / weight	Width: 414.5 mm, height: 508 mm, depth: 190 mm; 6.2 kg (net)
Operating environment	Operation: 0 to +40 °C, humidity: 20–80 % (without condensation) Storage: -20 to +60 °C, humidity: 8–95 % (without condensation)

DEFINITION OF THE MAXDATA WARRANTY

The MAXDATA warranty covers all failures resulting from defective components and manufacturing defects that occur within the product specific warranty period. The warranty period begins on the date of purchase (date of original customer invoice).

Please be aware that in order to maintain your warranty claim the product concerned has to be received by MAXDATA together with the serial number and a copy of the original customer invoice within the warranty period.

MAXDATA‘s obligation under the warranty is restricted to repairing or exchanging defective components.

Defective components removed during repair process become the property of MAXDATA.

Components replaced within warranty coverage assume the remaining valid warranty period of the system.

Scope of the MAXDATA warranty:

MAXDATA‘s obligation under the warranty is limited to failures resulting from defective components and manufacturing defects, defects in the CRT, panel and background lighting for electrical errors (please also refer to the term definition and liability restriction).

Exclusions from the MAXDATA warranty:

The MAXDATA warranty does not cover damage of any kind that results from:

- The use of peripheral devices
- Improper use/operating faults
- Non-adherence to the user instructions
- Attempted repairs by the customer or third-parties without authorisation by MAXDATA
- Defective maintenance by third parties
- Device defects due to power failure, heat losses, missing EMC (electro-magnetic compatibility) cabling or similar reasons
- Accidents, storms, lightening, fire, water/other liquids, other natural catastrophes, theft, riots, plundering, the effects of war or other instances of acts of god
- The use of third-party components
- Non-authorised system changes
- BIOS versions/firmware updates/programmes to remove defects of all kinds (e.g. service packs, bug-fixes, hot-fixes)
- Resetting safety functions, deletion of passwords etc.
- Loss of customer-specific data or software from repair and installation processes
- Improper use of machine capacity or output
- Inappropriate customer operating environment

The MAXDATA warranty also does not cover the following:

- MAXDATA products from which the category plates, serial numbers, part numbers on the machine of machine parts have been removed or changed
- Decline in rechargeable battery capacity after the end of the 6 month warranty period
- The provision and installation of BIOS, driver or software updates/upgrades
- The new installation of software/operating systems that are no longer able to run (e.g. because of the deletion of system-relevant files, incorrect system settings or self-copying programs, e.g. computer viruses)
- Wear and tear on data storage media, LCD background lighting, CRTs on CRT monitors, picture tube burn-in or loss of brightness
- MAXDATA products for which the warranty seal has been broken by entities other than MAXDATA or those authorised by MAXDATA
- Breaks and scratches on TFT panels and CRT displays
- Damage through use of force and external impact respectively
- Spots on the panel caused by external impacts

- Colour spots resulting from falls
- Error class 2 pixel errors (please note the information on ISO 13406-2 on the website of the MAXDATA subsidiary concerned)

If the device received by MAXDATA demonstrates two defects and only one of these is covered by the MAXDATA warranty claim, the customer only has the right to repair for the damage to his device covered by the warranty.

In this case MAXDATA reserves the right to offer the customer several options on resolution in the form of a quotation and to charge the relevant processing costs.

This also applies to those devices for which upon receipt, it is found that they are not covered by the warranty. In these cases, MAXDATA reserves ownership of the exchange device provided and is entitled to demand its return.

MAXDATA reserves the right to charge costs incurred for unsuccessful attempts to collect a device that has been registered as defective from the customer.

If an exchange device is not provided in spite of a period having been set, MAXDATA is entitled to charge the net sales price as per the current price list plus the processing costs incurred. The customer has the right to provide evidence for the existence of lower damages.

MAXDATA restriction to liability:

MAXDATA expressly excludes customer claims that go beyond the warranty conditions if there is no obligation of liability imposed on MAXDATA by the laws of the country where the device was bought. This also applies in particular with regard to claims for damages as a result of default, damages for claims arising as a result of defects, loss of profit, transport damage that was not registered within a period of 6 days after receipt of the goods, loss of data or information through repair processes or damage resulting from interruption to operations.

Governing law:

All rights and duties are subject to the law of the country in which the MAXDATA product was purchased. The Agreement on Contracts for the International Sale of Goods (CISG) is not applicable.

Data Backup:

The responsibility for complete data backups, including of applications and operating system software remains exclusively with the customer. The data must be backed up before the warranty claim is made. MAXDATA excludes liability for any data or information lost for this reason during a warranty claim.

For further details regarding the MAXDATA warranty conditions please refer to www.maxdata.co.uk.

Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation), Statens Energimyndighet (The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issues: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safety.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does the environmenal labelling involve?

The environmental demands has been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development - SE-114 94 Stockholm, Sweden - Fax: +46 8 782 92 07 - Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as there today is no commercially available alternative. TCO aims on removing this exception when a mercury free alternative is available.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO´99 requirement permits the inclusion of lead since no replacement has yet been developed.

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* *Bio-accumulative is defined as substances which accumulate within living organisms*

** *Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.*

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